

# Wisconsin Strategic Bioenergy Feedstock Assessment (July 2012)

The Wisconsin State Energy Office contracted with the Wisconsin Bioenergy Initiative (WBI) to complete a strategic assessment of biomass in our state to see what renewable energy business opportunities might best be targeted and what policy changes might assist advancing these opportunities. Too often biomass assessments only provide a snapshot in time of overall state feedstock quantity. To better filter out barriers and opportunities and to see what makes strategic sense for Wisconsin, the WBI looked at a combination of biomass quantity, quality, price factors, and conversion technology. First, a review of the existing literature on biomass quantity studies was done along with other relevant topics. The research team completed extensive biomass quality analysis to match up feedstock with best production uses. Finally, a robust price analysis was done in the woody biomass sector to make sure consideration was given to the highest and best use for wood products and economic growth. The research team then took all this work to examine regional or even local opportunity for biomass energy site locations. [Download the Wisconsin Strategic Bioenergy Feedstock Assessment report here.](#)

**Additional Information (click links below):**

- [Wisconsin Strategic Bioenergy Feedstock Assessment – PowerPoint Overview](#)
- [Price Dynamics in Wisconsin’s Woody Biomass Markets – PowerPoint](#)
- [Wisconsin Department of Administration Summary of Roundwood and Harvest Residuals](#)
- [Wisconsin Organic Municipal Solid Waste by County in 2009](#)
- [Learn more about biomass.](#)

## Energy Applications from Agriculture and Cheese Manufacturing Feedstock (August 2012)

Baker Tilly partnered with the Wisconsin State Energy Office to evaluate opportunities and challenges in the area of biogas energy applications from dairy and cheese manufacturing waste. Wisconsin stakeholders have forged a path of leadership in the understanding and implementation of biogas market opportunities. Prior anaerobic digestion and biogas studies

have done an exceptional job explaining existing accomplishments and theoretical potential opportunities for biogas operations within agriculture and food processing operations. The ultimate value proposition to stakeholders, and what this report aims to do, is to craft a forward-looking technical action plan and specific biogas economic model and mapping tools for identifying, analyzing, and developing successful biogas projects. Click [here](#) to view the complete final report.

### **Biogas Economic Model**

The biogas economic model and toolkit is an easy to use online tool that allows biogas project stakeholders to establish a basis for a feasibility evaluation. Utilization of the economic toolkit will allow tangible examination of projects using feedstock from up to 10 different farms and 10 different processing plants.

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**Biogas Economic Model**

### **Wisconsin Development Map**

In cooperation with the University of Wisconsin, a sophisticated, user friendly mapping tool was created using historical databases of pertinent information and the software ArcGIS. The mapping tool is a dynamic resource for a multitude of users who are interested in cross-referencing wastewater treatment facilities, dairies, CAFOs, and other relevant landmarks to gauge overall wastewater activity, and therefore waste-to-energy opportunities, in the state of Wisconsin. The tool doesn’t stop at the state or county level; it has the ability to show high-level heat zones and drill down to selected zones to provide additional information in order to make informed project feasibility decisions.

## Development Map

**Additional Information (click links below):**

- <http://www.bakertilly.com/Renewable-Energy>
- <http://www.bakertilly.com/Energy-Utilities>
- <http://www.bakertilly.com/Food-Beverage>
- <http://www.bakertilly.com/Waste-to-Energy-Agriculture-Cheese-Production-Feedstocks>
- <http://www.bakertilly.com/Waste-to-Energy>
- <http://www.uwosh.edu/eric/>
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